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APPLICATION NO.	1				
	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/656,486	09/04/2003	Bomy Chen	2102397-992660	8632	
·	590 06/01/2004		EXAMINER		
2000 UNIVER	Y WARE & FREIDENRIC SITY AVENUE	H LLP	NGUYEN, CUONG QUANG		
E. PALO ALTO	E. PALO ALTO, CA 94303-2248		ART UNIT	PAPER NUMBER	
•	`.		2811		
• .			DATE MAILED: 06/01/2004	DATE MAILED: 06/01/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

4		Application No.	Applicant(s)				
4	Office Action Summary	10/656,486	CHEN, BOMY				
	- Constant Summary	Examiner	Art Unit				
	The MAII ING DATE of this community	Cuong Q Nguyen	2811	gu			
	The MAILING DATE of this communication appears on the cover sheet with the correspondenc address						
	A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any						
	Status						
	1) Responsive to communication(s) filed on			-)-			
	2a) ☐ This action is FINAL. 2b) ☐ This a	action is non-final.					
	3) Since this application is in condition for allowand	ce-except-for-formal-matters-pro	secution as to the me	arite ie			
	closed in accordance with the practice under Ex	parte Quayle, 1935 C.D. 11, 45	53 O.G. 213	51113 13			
	Disposition of Claims						
	4)⊠ Claim(s) <u>1-86</u> is/are pending in the application.	•					
4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed.							
						6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to.	
ļ	8)⊠ Claim(s) <u>1-86</u> are subject to restriction and/or election requirement.						
		schon requirement.					
	Application Papers			•			
1	9)☐ The specification is objected to by the Examiner.						
ŀ	10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	of CFR 1.00(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
_	Priority under 35 U.S.C. § 119						
1	12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
	a) ☐ All b) ☐ Some * c) ☐ None of:						
	1. Certified copies of the priority documents have been received.						
1	2. Certified copies of the priority documents have been received in Application No.						
	3. Copies of the certified copies of the priority documents have been received in this National Stage						
ĺ	application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.							
		•					
				•			
1	Attachment(s)						
1	1) Notice of References Cited (PTO-892)						
12	2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date.						
3	Paper No(s)/Mail Data Paper No(s)/Mail Data Paper No(s)/Mail Data						
	. Patent and Trademark Office	6)					
	FOL-326 (Rev. 1-04) Office Action	Summary	of Paner No /Mail Date 200				

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DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1-16 and 53-68, drawn to a semiconductor device, classified in class 257,
 subclass 2.
- II. Claims 17-51 and 69-86, drawn to a method of making a semiconductor device, classified in class 438, subclass 100+.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case unpatentability of the group I invention would not necessarily imply unpatentability of the group II invention, since the device of the group I invention could be made by processes materially different from those of group II invention, for example in claim 17, selectively forming the insulation material adjacent to the phase change material at the desired area (such that the insulating material is not formed in the void area) instead of forming the insulation material and then remove unwanted portion of the insulation material to form the void in the insulating material.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

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Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cuong Q Nguyen whose telephone number is (703) 308-1293. The examiner can normally be reached on Mon-Thur.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie Lee can be reached on (703) 308-1690. The fax phone numbers for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Cuong Nguyen Primary examiner May 26, 2004